

What is claimed is:

1. A motor in which a rotor is provided with a magnet opposing to the stator of the flange, comprising a flange formed of a flange body for holding a stator and a sleeve which is press fitted into a hole formed in the flange body, receives a shaft of a rotor inserted through an inner hole, and defines a fluid bearing together with the shaft, wherein a recess is formed at an opening of a wall with a hole of the flange body to relieve a press fitting force exerted to the sleeve.

2. A motor according to claim 1, wherein the recess is of an annular shape.

3. A motor according to claim 1, wherein the recess constitutes a cut off portion formed at an opening of the hole formed on the wall and/or a grooved recess formed on the inside area of the hole formed on the wall.

4. A motor according to claim 3, wherein the recess and/or a recess portion is of an annular shape.

5. A motor according to any claim of claims 1 to 4, wherein the sleeve is provided with a substantially cylindrical flange body into which the shaft is inserted, and a portion corresponding to the flange body and a portion corresponding to the sleeve body are integrated.

6. A motor comprising a flange formed of a sleeve having a lower bulge and a flange body, wherein a rotor is provided with a magnet opposing to a stator of the flange, and the stator is supported by the lower bulge of the

sleeve.

7. A method of manufacturing a motor in which a rotor is provided with a magnet opposing to the stator of the flange, including a flange formed of a flange body for holding a stator and a sleeve which is provided with a recess and press fitted into a hole formed in the flange body, receives a shaft of a rotor inserted through an inner hole, defines a fluid bearing together with the shaft, and is further provided with a flange body having a substantially cylindrical shape into which the shaft is inserted, comprising the steps of:

press fitting the sleeve body finished by machining into a hole of the flange body, and

inserting the shaft of the rotor into the hole of the sleeve body so as to define a fluid bearing.

8. A method of manufacturing a motor according to claim 7, wherein the recess is of an annular shape.

9. A method of manufacturing a motor according to claim 7, wherein the recess constitutes a cut off portion formed at an opening of the hole formed on the wall and/or a grooved recess formed on the inside area of the hole formed on the wall.

10. A method of manufacturing a motor according to claim 9, wherein the recess and/or a recess portion is of an annular shape.

11. A method of manufacturing a motor including a flange formed of a sleeve having a lower bulge and a flange body, wherein a rotor is provided with a magnet opposing to a stator of the flange, and the stator is supported

by the lower bulge of the sleeve, comprising the steps of:

press fitting the lower bulge of the sleeve body finished by machining into a hole of the flange body, and

inserting the shaft of the assembled rotor into the hole of the sleeve body so as to define a fluid bearing.

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